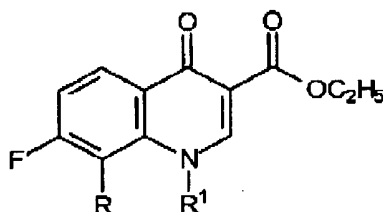


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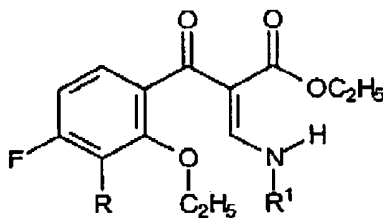
### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A process for preparing a quinolone antibiotic intermediate having the formula:



wherein R is C<sub>1</sub>-C<sub>2</sub> alkyl, C<sub>1</sub>-C<sub>2</sub> fluoroalkyl, C<sub>2</sub>-C<sub>4</sub> alkenyl, methoxy, chloro, or bromo; R<sup>1</sup> is a unit selected from the group consisting of C<sub>1</sub>-C<sub>2</sub> alkyl, C<sub>2</sub>-C<sub>3</sub> alkenyl, C<sub>3</sub>-C<sub>5</sub> cycloalkyl, and phenyl, each of which can be substituted by one or more fluorine atoms; said process comprising the step of cyclizing an admixture of quinolone precursors, said admixture comprising a 2-ethoxy substituted intermediate having the formula:



in the presence of a silylating agent.

2. (Original) A process according to Claim 1 wherein R is -OCH<sub>3</sub>.
3. (Original) A process according to Claim 1 wherein R is -CH<sub>3</sub>, -CH<sub>2</sub>F, -CHF<sub>2</sub>, and -CF<sub>3</sub>.
4. (Original) A process according to Claim 1 wherein R is -Cl.
5. (Original) A process according to Claim 1 wherein R is -CH<sub>2</sub>CH=CH<sub>2</sub>.
6. (Original) A process according to Claim 1 wherein said cyclization is conducted in the presence of a solvent selected from the group consisting of methylene chloride,

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dichloromethane, hexamethylphosphoramide, tetrahydrofuran, benzene, toluene, alkanes, and mixtures thereof.

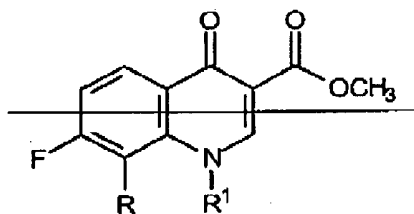
7. (Original) A process according to Claim 1 wherein said silylating agent is selected from the group consisting of chlorotrimethylsilane, N,O-bis(trimethyl-silyl)acetamide, N,O-bis(trimethylsilyl)trifluoroacetamide, bis(trimethylsilyl)urea, hexamethyltrisilazane, N-methyl-N-trimethylsilyltrifluoroacetamide, 1-trimethylsilyl-imidazole, trimethylsilyl trifluoromethanesulfonate, *tert*-butyldimethylchlorosilane, 1-(*tert*-butyldimethylsilyl)imidazole, N-*tert*-butyldimethyl-N-methyltrifluoroacetamide, *tert*-butyldimethylsilyltrifluoromethanesulfonate, *tert*-butylphenylchlorosilane, *tert*-butylmethoxyphenylbromosilane, dimethylphenylchlorosilane, triethylchlorosilane, trimethylsilyl trifluoromethanesulfonate, and triphenylchlorosilane.

8. (Currently Amended) A process according to Claim 7 wherein said silylating agent is N,O-bis(trimethylsilyl)acetamide.

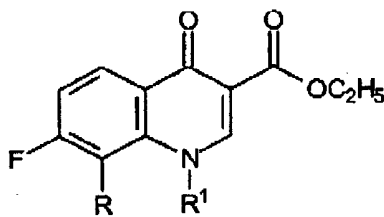
9. (Original) A process according to Claim 1 wherein R<sup>1</sup> cyclopropyl, methyl, ethyl, and benzyl. 4

10. (Original) A process according to Claim 1 wherein said cyclization is conducted by refluxing in the presence of a solvent.

11. (currently Amended) A process for preparing a quinolone antibiotic intermediate having the formula:

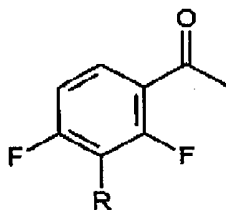


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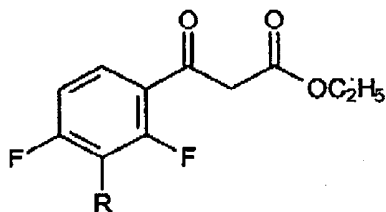


wherein R is C<sub>1</sub>-C<sub>2</sub> alkyl, C<sub>1</sub>-C<sub>2</sub> fluoroalkyl, C<sub>2</sub>-C<sub>4</sub> alkenyl, methoxy, chloro, or bromo; R' is a unit selected from the group consisting of C<sub>1</sub>-C<sub>2</sub> alkyl, C<sub>2</sub>-C<sub>3</sub> alkenyl, C<sub>3</sub>-C<sub>3</sub> cycloalkyl, and phenyl, each of which can be substituted by one or more fluorine atoms; said process comprising the steps of:

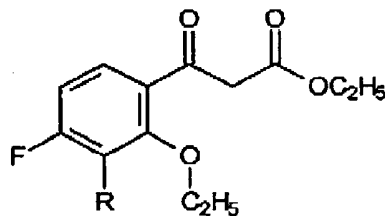
a) reacting an acetophenone having the formula:



with diethylcarbonate in the presence of a base to form an admixture of 4-fluoro β-ketoesters having the formula:

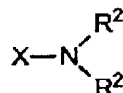


; and



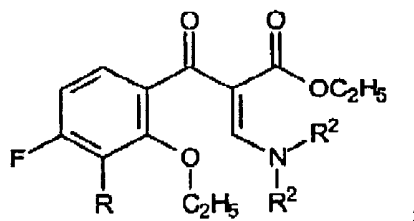
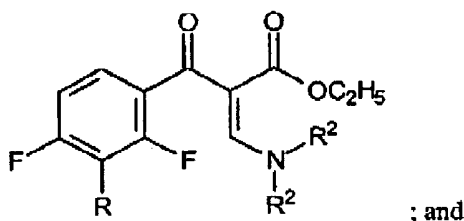
;

b) reacting said admixture with a Knoevenagel Reaction adduct having the formula:

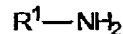


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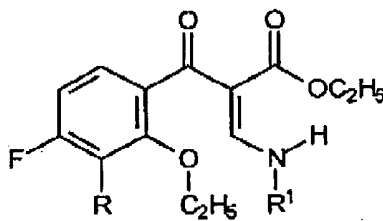
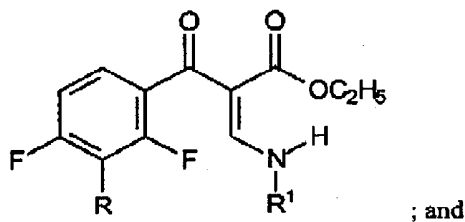
wherein  $R^2$  is  $C_1$ - $C_4$  linear or branched alkyl, phenyl, and mixtures thereof; X is an aldehyde unit or an aldehyde unit equivalent; to form an admixture of imine intermediates having the formula:



- c) reacting said imine intermediate admixture with an amine having the formula:

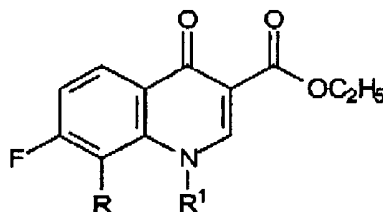


to form an admixture of quinolone intermediates having the formula:

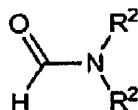


- d) cyclizing said quinolone intermediate admixture in the presence of a silylating agents agent to form said quinoline antibiotic intermediate having the formula:

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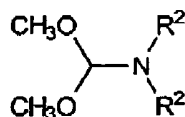


12. (Original) A process according to Claim 11 wherein said base in step (a) is a metal hydride selected from the group LiH, NaH, KH, CaH<sub>2</sub> and mixtures thereof.
13. (Original) A process according to Claim 11 wherein said base in step (a) is an inorganic base selected from the group Na<sub>2</sub>CO<sub>3</sub>, NaHCO<sub>3</sub>, K<sub>2</sub>CO and mixtures thereof.
14. (Original) A process according to Claim 11 wherein said base in step (a) an organic base selected from butyl lithium and lithium diisopropylamide.
15. (Original) A process according to Claim 11 wherein step (a) comprises reacting one mole of<sup>7</sup> a substituted acetophenone with 2.2 moles of a base, and 2.4 moles of diethylcarbonate.
16. (Original) A process according to Claim 11 wherein step (a) is conducted in the presence of a solvent selected from the group consisting of methylene chloride, dichloro-methane, hexamethylphosphoramide, tetrahydrofuran, benzene, toluene, alkanes, and mixtures thereof.
17. (Original) A process according to Claim 11 wherein said adduct is an aldehyde having the formula:



18. (Original) A process according to Claim 11 wherein said adduct is a dimethyl acetal having the formula:

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wherein R<sup>2</sup> is methyl, ethyl, and mixtures thereof.

19. (Currently Amended) A process according to Claim 11 wherein step (b) is conducted in the presence of toluene wherein said adduct is a dimethyl acetal and wherein further the admixture obtained from step (a) and said dimethyl acetal is heated heat to azeotropically remove any methanol which is formed.
20. (Original) A process according to Claim 11 wherein said primary amine in step (c) is selected from the group consisting of methylamine, ethylamine, and cyclopropylamine.
21. (Original) A process according to Claim 11 wherein step (c) is conducted in the presence of a solvent selected from the group consisting of methylene chloride, dichloro-methane, hexamethylphosphoramide, tetrahydrofuran, benzene, toluene, alkanes, and mixtures thereof.
22. (Original) A process according to Claim 11 wherein step (d) is conducted in the presence of a solvent selected from the group consisting of methylene chloride, dichloromethane, hexamethylphosphoramide, tetrahydrofuran, benzene, toluene, alkanes, and mixtures thereof.
23. (Original) A process according to Claim 11 wherein said silylating agent is selected from the group consisting of chlorotrimethylsilane, N,O-bis(trimethyl-silyl)acetamide, N,O-bis(trimethylsilyl)trifluoroacetamide, bis(trimethylsilyl)urea, hexamethyltrisilazane, N-methyl-N-trimethylsilyltrifluoroacetamide, 1-trimethylsilyl-imidazole, trimethylsilyl trifluoromethanesulfonate, *tert*-butyldimethylchlorosilane, 1-(*tert*-butyldimethylsilyl)-imidazole, N-*tert*-butyldimethyl-N-methyltrifluoroacetamide, *tert*-butyldimethylsilyl-trifluoromethane sulfonate, *tert*-butylphenylchlorosilane, *tert*-butyl-methoxyphenyl-bromosilane, dimethylphenylchlorosilane, triethylchlorosilane, trimethyl-silyl trifluoromethanesulfonate, and triphenylchlorosilane.
24. (Original) A process according to Claim 23 wherein said silylating agents is N,O-bis(trimethylsilyl)acetamide.

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25. (Original) A process according to Claim 11 wherein step (d) is conducted by refluxing in the presence of a solvent.

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